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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/988,629	11/20/2001	Ciaran Bolger	08019.0001-00000	8916	
7	2590 09/07/2004	EXAMINER			
Finnegan Her	nderson, Farabow	DAHBOUR, FADI H			
Garrett & Dunner, L.L.P. 1300 I Street, N.W.			ART UNIT	PAPER NUMBER	
Washington, DC 20005-3315			3743		

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application	No.	Applicant(s)		ΠJ				
Office Action Summary			09/988,629		BOLGER ET AL.						
		-	Examiner		Art Unit	' ' ' '	<u></u>				
			Fadi H. Dahb	oour	3743	ı					
Period fo	The MAILING DATE of this commun or Reply	nication appe	ars on the c	over sheet with the	correspondence ad	dress	;				
A SH THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN risions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com reperiod for reply specified above is less than thirty (period for reply is specified above, the maximum s ree to reply within the set or extended period for repl reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. is of 37 CFR 1.136 imunication. 30) days, a reply v statutory period will by will, by statute, o	5(a). In no event, within the statutor Il apply and will e: cause the applica	however, may a reply be try minimum of thirty (30) do xpire SIX (6) MONTHS fro tion to become ABANDON	timely filed ays will be considered timel im the mailing date of this c IED (35 U.S.C. § 133).		ication	ı.			
Status											
1)	Responsive to communication(s) fil	led on 10 Jur	ne 2004.								
2a)□											
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.										
Dispositi	ion of Claims										
·	Claim(s) <u>1-63</u> is/are pending in the										
	4a) Of the above claim(s) <u>1-40,46,4</u>	8-56,58,61 a	and 62 is/are	withdrawn from c	onsideration.						
5)□	Claim(s) is/are allowed.										
6)⊠	Claim(s) <u>41,45,47,57,59,60 and 63</u> is/are rejected.										
7)⊠	Claim(s) 42-44 is/are objected to.										
8)[Claim(s) are subject to restri	iction and/or	election req	uirement.							
Applicat	ion Papers										
9)[The specification is objected to by the	he Examiner				A		***			
10)🖂	The drawing(s) filed on 20 November	<u>er 2001</u> is/ar	e: a) 🗌 acc	epted or b)⊠ obje	cted to by the Exan	niner.					
·	Applicant may not request that any obje										
	Replacement drawing sheet(s) including					FR 1.	121(d	i).			
11)[The oath or declaration is objected	to by the Exa	aminer. Note	the attached Office	ce Action or form P	ΓΟ-1	52.				
Priority (under 35 U.S.C. § 119										
12)	Acknowledgment is made of a claim	n for foreign p	priority unde	r 35 U.S.C. § 119((a)-(d) or (f).						
	☐ All b)☐ Some * c)☐ None of:			_							
,	1. Certified copies of the priority	v documents	have been	received.							
	2. Certified copies of the priority				ation No						
	3. Copies of the certified copies					Stag	е				
	application from the Internati					Ü					
* (See the attached detailed Office acti				ved.						
				R/30/04							
Attachment(s)			4		(DTO 442)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			4) Interview Summa Paper No(s)/Mail							
3) Infor	mation Disclosure Statement(s) (PTO-1449 c er No(s)/Mail Date				l Patent Application (PT	O-152))				

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DETAILED ACTION

1. The Examiner acknowledges Applicant's submission of the election of claims 41-45, 47, 57, 59, 60, 63, filed on 06/10/2004. Claims 1-40, 46, 48-56, 58, 61, 62 being withdrawn from consideration as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 57, 59, 60 are rejected under 35 U.S.C. 102(b) as being anticipated by LaCourse (US4572199).

Regarding claim 57, LaCourse discloses a method for monitoring a non-electrical physiological signal (Figs.1-6), comprising sensing the non-electrical physiological signal (see "sensing ocular pulses" in line 1 of abstract), and monitoring a physiological phenomenon while sensing the signal (see "also... with simultaneously obtained ECG signals" in lines 6-8 of abstract).

Regarding claim 59, LaCourse discloses a method for eye tremor monitoring (Figs.1-6), comprising receiving a signal representing eye tremor (see "displacement of

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the corneal surface of the eye" in lines 44-45 of col.1, also see "receive... signal" in lines 30, 32, 33, 35 of column 2), and monitoring eye tremor while receiving said signal (see right-half of Fig.6, also see right-half of Fig.5).

Regarding claim 60, LaCourse discloses a method for eye tremor monitoring (Figs.1-6), comprising acquiring an eye tremor signal (see "displacement of the corneal surface of the eye" in lines 44-45 of col.1, also see "receive... signal" in lines 30, 32, 33, 35 of column 2) from a sensor mounted on or near a patient's closed eyelid (see "transducers to sense" in line 5 of abstract, also see "TRANSDUCER" in Fig.6), filtering artifacts from the eye tremor signal while receiving the eye tremor signal (see "FILTER" in Figs.5-6), analyzing the eye tremor signal (see "analyzed" in line 6 of abstract) for an indication of the patient's status (see "to diagnose carotid insufficiency" in lines 41-42 of col.1), and displaying the result (see right-half of Fig.5).

4. Claim 63 is rejected under 35 U.S.C. 102(b) as being anticipated by Schneider et al.

Schneider discloses a method for monitoring eye tremor (Figs.1-6), comprising receiving a signal (see "signal...52" in line 10 of col.4, also see 52 of Fig.4) representing eye tremor (see "eye movement sensor 50" in lines 7-8 of col.4, also see 50 of Fig.4) through a closed eyelid (Figure 1), monitoring eye tremor while receiving the signal (Figures 5-6, also see "monitoring" in line 20 of col.5).

5. Claims 41, 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Torch.

Torch discloses a method for classifying a patient's brain stem function using eye tremor (Figs.1-17), comprising receiving a signal representing eye tremor (see

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"monitoring movement of a person's eye" in line 1 of abstract, also see "signals produced by the camera monitoring movement of the eye" in lines 20-21 of col.24), comparing the received signal representing eye tremor to at least one reference value (see "emitters project a reference frame towards the eye, and a camera on the frame monitors movement of the eye relative to the reference frame" in lines 9-12 of abstract), and classifying the patient's brain stem function using the comparison of the received signal representing eye tremor signal to at least one reference value (see "neurological conditions may also be monitored... brain stem" in lines 60-61 & 67 of col.11, and also in line 4 of col.12), further comprising reducing signal interference from ambient noise (see "environmental noise" in line 11 of col.19).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Velez et al in view of Resnick.

Velez discloses a method for monitoring eye tremor (Figs.1-6), comprising a hinged sensor mount to a patient's forehead (Fig.1), and monitoring the patient's eye tremor (see "eye movement monitoring" in lines 48-49 of col.4) while an eye tremor sensor mounted to the sensor mount senses a signal representing eye tremor (24 of Fig.1, also see lines 15-50 in column 9, also see Fig.5).

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Velez does not disclose tape. Resnick discloses tape (see "double backed tapes" in lines 62-63 of col.2). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to have double backed tape as taught by Resnick, in the device of Velez, for improved securement of the device in place.

Allowable Subject Matter

8. Claims 42-44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Drawings

9. The drawings filed on 11/20/01 are objected to because of the following informalities:

The element numbers and figure numbers must be thicker and clearer, in Figures 1-11.

Corrections are required.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Morrison et al, Campin, Frey et al, Cornsweet et al and Taboada et al are cited to show eye monitoring systems and methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fadi H. Dahbour whose telephone number is 703-306-5479. The examiner can normally be reached on M-F, 9am-5:30pm est.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry A. Bennett, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/30/04
Fadi H. Dahbour
Examiner
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